

Title (en)
PUSH-TO-RELEASE QUICK CONNECTOR

Title (de)
DURCH DRÜCKEN LÖSBARE SCHNELLKUPPLUNG

Title (fr)
RACCORD RAPIDE A LIBERATION PAR POUSSEE

Publication
EP 0946841 A1 19991006 (EN)

Application
EP 97926885 A 19970603

Priority
• US 9709587 W 19970603
• US 77059096 A 19961219

Abstract (en)
[origin: WO9827374A1] A quick connector (50) formed of a housing (52) having an internal bore (62) receiving one end (92) of a male connector (56) with a radially enlarged annular flange (90). A retainer (54) carried on the housing (52) has a cylindrical sleeve (100) disposed in the stepped bore (62) in the housing. Pivotal tabs (170) extend from the sleeve (100) to fingers (144, 146) extending angularly inward into the bore to engage the annular flange (90) and prevent axial disengagement of the male connector (56) from the housing (52). Release members (172, 174) extend from each tab (170) and are adapted for pivotal, radially outward movement causing like radially outward movement of the fingers (144, 146) to disengage the fingers from the annular flange (90) and to allow separation of the male connector (56) from the housing (52). Lock surfaces (194, 196) carried on the housing (52) engage the release members (172, 174) during radially inward movement of the release members caused by an axial load on the male connector to resist axial separation of the housing (52) and male connector (56).

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F16L 37/084

IPC 8 full level
F16L 37/08 (2006.01); **F16L 37/098** (2006.01)

CPC (source: EP US)
F16L 37/0982 (2013.01 - EP US); **F16L 37/0987** (2013.01 - EP US); **Y10S 285/921** (2013.01 - EP US)

Citation (search report)
See references of WO 9827374A1

Cited by
CN109496254A; WO2018019422A1; US11530766B2; US11732828B2

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